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Title: IMMUNOGENIC HBc CHIMER PARTICLES HAVING ENHANCED STABILITY (Ashley J. Birkett) Sheet 1 of Sheet 1 of 10 New Filing Date: 3/22/04 FIGs. 1&2A Attorney Docket No.: ICC-102.2. DV I US (4564/91644)

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FIG.

TTCACACAGGAAACAGAATTCCCGGGGATCCGTCGACCTGCAGCCAAGCTT pKK223-3

HindIII

SEQ ID NO.:285

TTCACATAAGGAGGAAAAAAccatggGATCCG-pKK223-3N

Ncol

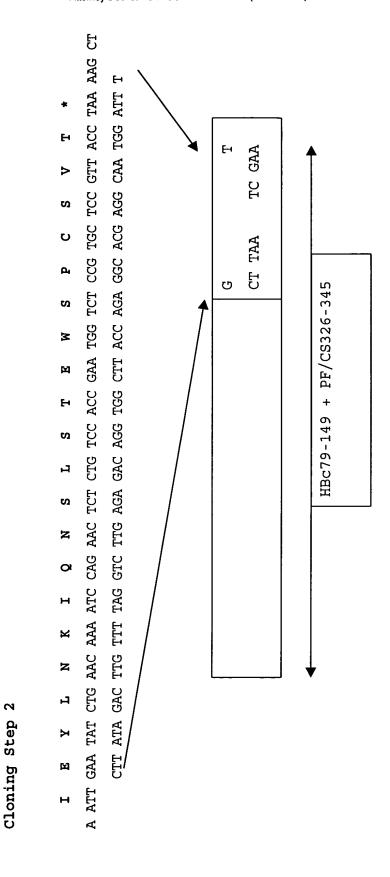
SEQ ID NO.:286

FIG. 2A

A ATT AAC GCT AAT CCG AAC GCT AAT CCG AAC GCT AAT CCG GAG CT z TTA GGC TTG CGA z Д Z K Z Д z ď Z Д Z Cloning Step 1 ď Z Н

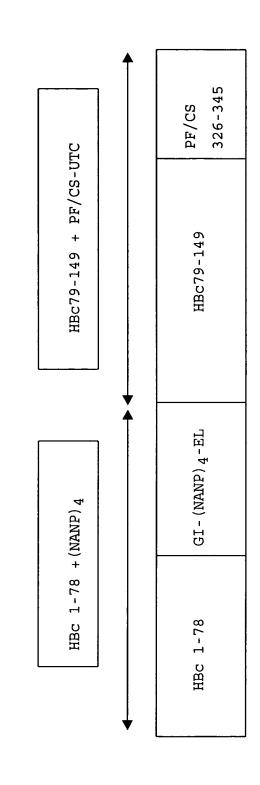
Ö ပ္သမ္မ HBc 79-149 TTA GAG C (NANP) 4 JG TTA GGC TTG CGA + TAA HBc 1-78 CH Ö TTA GGC TTG CGA 1-78 HBc CGA TIG

FIG.





Cloning Step 3



Title: IMMUNOGENIC HBc CHIMER PARTICLES HAVING ENHANCED STABILITY (Ashley J. Birkett) Sheet 4 of 10 New Filing Date: 3/22/04 FIGs. 3&4 Attorney Docket No.: ICC-102.2. DV I US (4564/91644)

FIG. 3

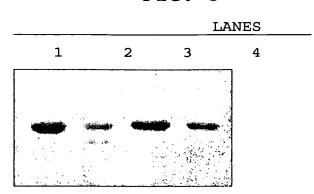
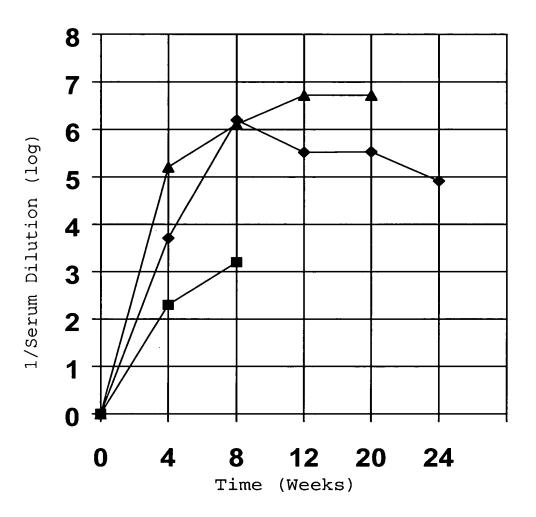


FIG. 4

LANES

1 2 3 4

FIG. 5



Title: IMMUNOGENIC HBc CHIMER PARTICLES HAVING ENHANCED STABILITY (Ashley J. Birkett) Sheet 6 of New Filing Date: 3/22/04 FIG. 6
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FIG. 6

Scheme 1

mylfhlclvf acvpcptvqa sklclgwlwd		mdidpykefg atvellsflp sdffpsvrdl ldtasalyre	ndidpykefg atvellsflp sdffpsvrdl ldtasalyre	ndidpykefg atvellsflp sdffpsvrdl ldtasalyre	ndidpykefg atvellsflp sdffpsvrdl ldtaaalyrd	mdidpykefg ssyqllnflp ldffpdlnal vdtatalyee	mdidpykefg ssyqllnflp ldffpdlnal vdtaaalyee
	1	mdidpykefg at	mdidpykefg at	mdidpykefg at	mdidpykefg at	mdidpykefg ss	mdidpykefg ss
Ground Squirrel		HBc AYW	HBc ADW	HBc ADW2	HBc ADYW	Woodchuck	Ground Squirrel

	4.L		t	
HBc AYW	alespehcsp	alespehcsp hhtalrqail cwgelmtlat wvgvnledpa	cwgelmtlat	wvgvnledpa
HBc ADW	alespehcsp	alespehcsp hhtalrqail cwgelmtlat wvgnnlqdpa	cwgelmtlat	wvgnnlqdpa
HBc ADW2	alespehcsp	alespehcsp hhtalrqail cwgelmtlat wvgnnledpa	cwgelmtlat	wvgnnledpa
HBc ADYW	alespehcsp	alespehcsp hhtalrqail cwgdlmtlat wvgtnledpa	cwgdlmtlat	wvgtnledpa
Woodchuck	eltgrehcsp	eltgrehcsp hhtairqalv cwdeltklia wmssnitseq	cwdeltklia	wmssnitseq
Ground Squirrel	eltarehosp	eltgrehcsp hhtairgaly cweeltrlit wmsentteev	cweeltrlit	wmsentteev

FIG. 7E

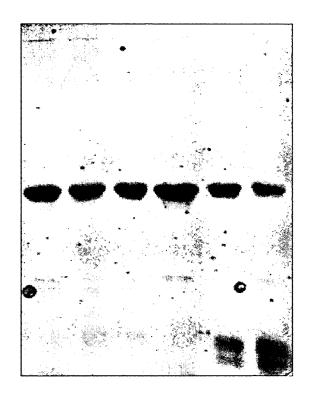
81

gretvieylv gretvleylv gretvleylv gretvleylv gqhtvqeflv	rrgrsprrrt rrdrgrsprr rrdrgrsprr rrgrsprrrt rrggarasrs rggsraarsp	
lwfhiscltf lwfhiscltf lwfhiscltf lwfhiscltf lwfhlscltf wfhlscltf	stlpettvvr stlpettvvr stlpettvvr stlpettvvr stlpehtvir tlpehtvir	sqc resqc resqc sqc sqc qspasnc
tnmglkfrql tnmglkirql tnvglkirql tnvglkfrql dtwglkvrqs twglkvrqtl	ayrppnapil ayrppnapil ayrppnapil ayrppnapil pyrppnapil yrppnapils	prrrrsqsre qsprrrrsqs qsprrrsqs prrrsqsre rrsqsprrrr
srdlvvsyvn srdlvvnyvn srdlvvsyvn vrtiivnhvn rriivdhvnn	sfgvwirtpp sfgvwirtpp sfgvwirtpp sfgvwirtpp sfgvwirtpp fgvwirtpa	161 psprrrsqs rtpsprrrs rtpsprrrps psprrrps psprrrsqs prrrtpsprr
HBc AYW HBc ADW HBc ADW2 HBc ADYW Woodchuck Ground Squirrel	HBC AYW HBC ADW HBC ADW2 HBC ADYW Woodchuck Ground Squirrel	HBC AYW HBC ADW HBC ADW2 HBC ADYW Woodchuck Ground Squirrel

Title: IMMUNOGENIC HBc CHIMER PARTICLES HAVING ENHANCED STABILITY (Ashley J. Birkett) Sheet 9 of 10 New Filing Date: 3/22/04 FIG. 8 Attorney Docket No.: ICC-102.2. DV I US (4564/91644)

FIG. 8

<u>V12.Pf1</u>				V12.Pf1(C17A)C150			
			DAY	S			
	0	7	14	0	7	14	



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FIG. 9

1 2 3 4 5

